

2/21/2018

Print



Dart Hawkesbury
1270 Aberdeen St Hawkesbury, ON K6A 1K7 Canada
Tel (613) 632-5200

Purchasing Receipts

PO No	Supplier	Line Item No	Rel No	Terms	Purchased Item	Description	For Part No	Project	Equipment ID	Order Qty	Due Date	Received Quantity	Accounting Job No	Serial No	Status	Receive Date	Price/Unit	Aging Days	Past Due
PO038986	MES002 VC	2	1	Net 30	M4140NR0.625 <i>Astm</i>	4140 Steel Round Bar 0.625" receive ft				8	2/20/2018	8		S044296	Stock	2/21/2018	\$ 5.70 / ft	0	
		3			M4140NR0.875	4140 Steel Round Bar 0.875" receive ft				20		20		S044297	Stock	2/21/2018	\$ 4.70 / ft	0	
		4			M4140CDB1.000x1.000 <i>Astm</i>	4140 Steel Bar 1.000 X 1.000 receive ft				6		6		S044298	Stock	2/21/2018	\$ 27.00 / ft	0	
		5			MT-4140-B-1.250X6.000 ASTM	AISI 4140 Round Bar : Material: AISI 4140 STEEL BAR AS PER ASTM A29, AMS 6349, AMS 6382, AMS 6529, MIL-S-5626 MIN. ROCKWELL C = 28 RC MAX. ROCKWELL C = 32 RC NOTE: cut material in 12" length x 10 pcs				10		10		S044299	Stock	2/21/2018	\$ 68.60 / ft	0	
Total:										44		44							

Plex 2/21/2018 2:19 PM Dart.Dubois.Pascal

METAL SOLUTIONS INC
2625 BOUL JACQUES CARTIER EST
LONGUEUIL, QUEBEC
J4N 1L7
Tel.: 450 641-3330

Shipping Order

20/02/2018

Order : 132578
Reference : 38986
Ship : PICK UP / PICK UP

Customer : 6323336

DART AEROSPACE LTD
1270, ABERDEEN STREET
HAWKESBURY, ONTARIO
K6A 1K7

Ship To

Same

Tel.: 1 613 632-3336

Item No.	Description	Qty	Qty. Deliver	B/O Qty
	***** FACTURER E-MAIL ***** SUPER IMPORTANT SUR LE PACKING SLIP INSCRIRE LES HEAT N			
SF14124HR	304 STAIN FLA .25" X .500" HR 2 X 12.75' 15 X 13.08' 2 X 13.33' 6 X 13' HT;67736108			
MR5841H	4140 ROND .625" H.T 1 X 96" ***** HT;75066727	8	8	0
MR7841H	4140 HT ROU .875" DIA 1 x 21.25' HT;75065013	21.25	21.25	0
MSQ141CD	4140 SQU 1.000 CD 1 X 72" HT;SA894555	6	6	0
MP11441H	4140 HTSR PLATE 1.250" THICK 10 X 6" X 12" HT;pm94492	280	280	0
	SHIP JOURNEY COLLECT JP			

Ref. : _____

Shipping : _____
Package No : _____
Merchandise Received: _____



TRANSPORT EXPRESS MINIMAX TRANSPORTATION INC.
P.O. BOX 92, CORNWALL, ONTARIO K6H 5R9
1-800-465-6657

DELIVERY RECEIPT
REÇU DE LIVRAISON

DATE 02-20-2018	TRAILER - REMORQUE 758	ORIG. COR	DEST. COR	NIR R-519336	CVOR -3104-372-613	PRO. 1624128
SHIPPER / EXPÉDITEUR METAUX SOLUTIONS 2625 BOUL JACQUES CARTIER E LONGUEUIL, QC J4M 1L7 (450) 641-3330			CONSIGNEE / CONSIGNATAIRE DART AEROSPACE 1270 ABERDEEN ST HAWKESBURY, ON K1A 1K7 (613) 632-5200			CODE 0
JCT			ORIG. CARRIER / REÇU DE PRO		JCT	TRANSFER TO / TRANSFERT À

GST / TPS: R 126922954
QST / TVQ: 1010859073



PCS	TYPE	DESCRIPTION	WEIGHT / POIDS
3	SKID	D STC HELICOPTER PARTS 1 CRATE @ 141X7X6, 1 CRATE @ 159X7X6, @ 32X15X8	812L 1 SKID TPB
TOTAL 3	DECLARED VALUE / VALEUR DÉCLARÉE 0		TOTAL 812L

B/L PB20143589

P.O.

APPT INFO.

02/21/18

BILL TO:
JOURNEY FREIGHT
18100 TRANSCANADA
KIRKLAND, QC

PCS	UNIT	IN / ENTRÉE	OUT / SORTIE	CPC	RETURN
-----	------	-------------	--------------	-----	--------



REC. _____ PCS DATE _____

BY / PAR

ANY LOSS OR DAMAGE MUST BE NOTED ON PROBILL AT TIME OF DELIVERY.
TOUTES PERTES OU DOMMAGES DOIVENT ÊTRE SIGNALÉES AU MOMENT DE LA LIVRAISON.

C.O.D.
C.R.

C.O.D. FEE
FRAIS DE C.R.

TOTAL ►

15K14 7

METAUX SOLUTIONS INC
2625 BOUL JACQUES CARTIER EST
LONGUEUIL, QUEBEC
J4N 1L7
Tel.: 450 641-3330

Shipping Order

20/02/2018

Order : 132578
Reference : 38986
Ship : PICK UP / PICK UP

Customer: 6323336

DART AEROSPACE LTD
1270, ABERDEEN STREET
HAWKESBURY, ONTARIO
K6A 1K7

Ship To

Same

Tel.: 1 613 632-3336

Item No.	Description	Qty	Qty. Delivered	B/O Qty
	***** FACTURER E-MAIL ***** SUPER IMPORTANT SUR LE PACKING SLIP INSCRIRE LES HEAT N			
SF14124HR	304 STAIN FLA .25" X .500" HR 2 X 12.75' 15 X 13.08' 2 X 13.33' 6 X 13' HT;67736108			
MR5841H	4140 ROND .625" H.T 1 X 96" ***** HT;75066727	8	8	0
MR7841H	4140 HT ROU .875" DIA 1 x 21.25' HT;75065013	21.25	21.25	0
MSQ141CD	4140 SQU 1.000 CD 1 X 72" HT;SA894555	6	6	0
MP11441H	4140 HTSR PLATE 1.250" THICK 10 X 6" X 12" HT;pm94492	280	280	0
	SHIP JOURNEY COLLECT JP			

1624128

Shipping :
Package No :
Merchandise Received:

Ref. :
:

15KID

METAUX SOLUTIONS INC
2625 BOUL JACQUES CARTIER EST
LONGUEUIL, QUEBEC
J4N 1L7 **Tel.:** 450 641-3330

Shipping Order

20/02/2018

Order : 132669
Reference : 39020
Ship : PICK UP / PICK UP

Customer: 6323336

DART AEROSPACE LTD
1270, ABERDEEN STREET
HAWKESBURY, ONTARIO
K6A 1K7

Ship To

Same

Tel.: 1 613 632-3336

Item No.	Description	Qty	Qty. Delivered	B/O Qty
TP12A2	***** FACTURER E-MAIL ***** SUPER IMPORTANT SUR LE PACKING SLIP INSCRIRE LES HEAT N A-2 PLATE TFA 1/2" THICK 9 X 1.25" -0+.+ X 140" R/L HT;PM83806 ASAS ASAP ASAP SHIP JOURNEY COLLECT	246	246	0

Shipping : _____
Package No : _____
Merchandise Received: _____

Ref. : _____

METAUX SOLUTIONS INC
2625 BOUL JACQUES CARTIER EST
LONGUEUIL, QUEBEC
J4N 1L7

Tel.: 450 641-3330

Shipping Order

20/02/2018

Order : 132578
Reference : 38986
Ship : PICK UP / PICK UP

Customer: 6323336

DART AEROSPACE LTD
1270, ABERDEEN STREET
HAWKESBURY, ONTARIO
K6A 1K7

Ship To

Same

Tel.: 1 613 632-3336

Item No.	Description	Qty	Qty. Delivered	B/O Qty
	***** FACTURER E-MAIL ***** SUPER IMPORTANT SUR LE PACKING SLIP INSCRIRE LES HEAT N			
SF14124HR	304 STAIN FLA .25" X .500" HR 2 X 12.75' 15 X 13.08' 2 X 13.33' 6 X 13' HT;67736108			
MR5841H	4140 ROND .625" H.T 1 X 96" ***** HT;75066727	8	8	0
MR7841H	4140 HT ROU .875" DIA 1 x 21.25' HT;75065013	21.25	21.25	0
MSQ141CD	4140 SQU 1.000 CD 1 X 72" HT;SA894555	6	6	0
MP11441H	4140 HTSR PLATE 1.250" THICK 10 X 6" X 12" HT;pm94492	280	280	0
	SHIP JOURNEY COLLECT JP			

Shipping : _____

Package No : _____

Ref. : _____

Merchandise Received: _____

Shipping Order

20/02/2018

METAUX SOLUTIONS INC
2625 BOUL JACQUES CARTIER EST
LONGUEUIL, QUEBEC
J4N 1L7
Tel.: 450 641-3330

Order : 132578
Reference : 38986
Ship : PICK UP / PICK UP

Customer: 6323336

Ship To

DART AEROSPACE LTD
1270, ABERDEEN STREET
HAWKESBURY, ONTARIO
K6A 1K7

Same

Tel.: 1 613 632-3336

Item No.	Description	Qty	Qty. Delivered	B/O Qty
	***** FACTURER E-MAIL ***** SUPER IMPORTANT SUR LE PACKING SLIP INSCRIRE LES HEAT N			
SF14124HR	304 STAIN FLA .25" X .500" HR 2 X 12.75' 15 X 13.08' 2 X 13.33' 6 X 13' HT;67736108			
MR5841H	4140 ROND .625" H.T 1 X 96" ***** HT;75066727	8	8	0
MR7841H	4140 HT ROU .875" DIA 1 x 21.25' HT;75065013	21.25	21.25	0
MSQ141CD	4140 SQU 1.000 CD 1 X 72" HT;SA894555	6	6	0
MP11441H	4140 HTSR PLATE 1.250" THICK 10 X 6" X 12" HT;pm94492	280	280	0
	SHIP JOURNEY COLLECT JP			

Shipping : _____
Package No : _____

Ref. : _____

Merchandise Received: _____

Chantal Lavoie

From: Jérôme Primeau <j.primeau@metauxsolutions.com>
Sent: Tuesday, February 06, 2018 9:03 AM
To: Chantal Lavoie
Subject: RE: quote

Voir plus bas

5/7 jours

De : Chantal Lavoie [mailto:clavoie@dartaero.com]
Envoyé : Monday, February 5, 2018 10:58 AM
À : Jérôme Primeau <j.primeau@metauxsolutions.com>
Objet : quote

Good morning Jerome,
Please advise price and delivery on mat'l.

~~303 bar 1" x 3" x 24 ft 74.90\$/ft~~

~~303 bar 1" x 1" x 24 ft 24.25\$/ft~~

~~304 bar 1" x 2.5" x 12 ft 36.15\$/ft~~

~~304 bar 2.5" x 2.5" x 12 ft 86.95\$/ft~~

~~304 bar 0.625" x 4" x 4 ft 225.00\$/pc 54.25~~

~~4140 H round bar 1.375" x 8 ft 20' only 9.75\$/ft~~

~~4140n round bar 0.625" x 8 ft ht only 5.70\$/ft~~

~~4140n round bar 0.875" x 8 ft ht and 20' only 4.70\$/ft~~

~~303 round bar 0.250" x 12 ft 304 only 95\$/ft~~

~~1018 round bar 1" x 12 ft 4.50\$/ft~~

~~4140 cd bar 1" x 1" x 6 ft 27.00\$/ft 162.00~~ ✓

~~4140 qt round bar 1" x 8 ft ht only 6.25\$/ft~~

~~4140 qt round bar 0.625" x 8 ft ht only 5.70\$/ft~~

~~4140 bar 1" x 6.250" x 4 ft 285.20\$/pc 71.30~~

~~A513 round tubing 0.750" x 0.085" x 20 ft offer .095" wall 3.25\$/ft~~

4140 bar cut to size 6" x 12" x 1.250" thick x 3 pcs 68.60\$/ea

Bronze round bar 2.250" x 2 ft (630 spec's) will get back for both
Bronze 2.5" x 2 ft (630 spec's)

Thanks

METAUX SOLUTIONS INC
2625 BOUL JACQUES CARTIER EST
LONGUEUIL, QUEBEC
J4N 1L7 **Tel. : 450 641-3330**

Bid 05/02/2018 25889

Sales Rep. : JEROME PRIMEAU
Reference : chantal
Expiration Date : 06/05/2018

Customer : 6323336

DART AEROSPACE LTD
1270, ABERDEEN STREET
HAWKESBURY, ONTARIO
K6A 1K7

Ship To :

Same

Tel.: 1 613 632-3336

Item No.	Description	Qty	Price	Total	Tx
	***** FACTURER E-MAIL ***** SUPER IMPORTANT SUR LE PACKING SLIP INSCRIRE LES HEAT N				
MP141H	4140 HTSR PLATE 1.00" THICK 1 x 6.25" x 72"	138	2.45	338.10	A
MP5841H	4140 HTSR TFA PLATE .625" P.M. 1 x 3" x 72"	44	3.10	136.40	A
MR384130	4130 .375 DIAM 1 X 12' 5/7 JOURS	12	15.10	181.20	A
SR144	304 ROU .250 DIA 1 X 12' PAS DE 303	12	1.80	21.60	A
TR134O1	O-1 TFA TO FIN 1.750 RD 1 X 72"	50	2.85	142.50	A
TR1O1	O-1 TFA TO FIN 1 RD 1 X 725"	18	2.85	51.30	A
MR51641H	4140HT ROU .312 DIA. REGRET				
MR3841H	4140 HTSR .375" DIA 1 X 12'	12	5.85	70.20	A
MR11441H	4140 HTSR ROU 1.250 DIA 1 X 12'	12	8.65	103.80	A
MR31241H	4140 HTSR ROU 3.500 DIA 1 X 72"	6	68.35	410.10	A
	3/4 JOURS				
Subtotal				1 455.20	
A) Regist :				HST :	189.18
Total :				1 644.38	



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER PO038986

Supplier: MES002-VC
Metaux Solutions
2625 boul Jacques-Cartier Est
Longueuil
QC
J4N 1L7 Canada
Phone: 800 558 8858
Fax: 514 633 8044

PO No: PO038986

PO Date: 2/8/18

Due Date: 2/20/18

Purchase Order

Revision:

Revision Date:

Ship-To Contact: Lacelle, Linda
Phone: llacelle@dartaero.com

E-MAILED

FEB 08 2018

Ship To: 1270 Aberdeen Street
Hawkesbury
ON
K6A 1K7 Canada
Phone: 613-632-5200

Via: Ground

Pynt Terms: Net 30

Freight Terms:

Special Comments:

Items

Line Item	Part	Supplier Part No	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
1	M304B0.250x0.500		304 Bar .250 X .500 : MATERIAL: AISI 304/316 SS BAR OR AISI 304/316 SS PLATE AS PER ASTM A276 OR ASTM A240 NOTE: AISI 303 NOT ACCEPTABLE receive ft	Firmed	2/20/18	300 pcs	0 pcs	300 pcs	\$4.25/pcs	\$1,275.00
2	M4140NR0.625		4140 Steel Round Bar 0.625" receive ft	Firmed	2/20/18	8 ft	0 ft	8 ft	\$5.70/ft	\$45.60
3	M4140NR0.875		4140 Steel Round Bar 0.875" receive ft	Firmed	2/20/18	20 ft	0 ft	20 ft	\$4.70/ft	\$94.00
4	M4140CDB1.000x1.000		4140 Steel Bar 1.000 X 1.000 receive ft	Firmed	2/20/18	6 ft	0 ft	6 ft	\$27.00/ft	\$162.00
5	MT-4140-B- 1.250X6.000		AISI 4140 Round Bar : Material: AISI 4140 STEEL BAR AS PER ASTM A29, AMS 6349, AMS 6382, AMS 6529, MIL-S-5626 MIN. ROCKWELL C = 28 RC MAX. ROCKWELL C = 32 RC NOTE: cut material in 12" length x 10 pcs	Firmed	2/20/18	10 ft	0 ft	10 ft	\$68.60/ft	\$686.00

Grand Total: \$2,262.60

Order Notes

Order Notes

Procurement Quality Clauses

A005 right of entry
A012 chemical and physical test report
A016 personnel qualification
A017 raw material identification (as applicable)
A026 certification of material conformance
A041 quality management system
A042 dart notification by supplier
A043 retention of quality documents

A048 counterfeit parts avoidance, detection, mitigation and disposition program

A049 supplier awareness

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Plex 2/8/18 10:37 AM dart.lacelle.linda

2/8/2018

PURCHASE ORDER



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER

PO038986

Supplier: MES002-VC
Metaux Solutions
2625 boul Jacques-Cartier Est
Longueuil
QC
J4N 1L7 Canada
Phone: 800 558 8858
Fax: 514 633 8044

PO No: PO038986

PO Date: 2/8/18

Due Date: 2/20/18

Purchase Order

Revision:

Revision Date:

Ship-To Contact: Lacelle, Linda
Phone: llacelle@dartaero.com

Ship To: 1270 Aberdeen Street
Hawkesbury
ON
K6A 1K7 Canada
Phone: 613-632-5200

Via: Ground

Pymt Terms: Net 30

Freight Terms:

Special Comments:

Line Item	Part	Supplier Part No	Description	Items						
				Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
1	M304B0.250x0.500		304 Bar .250 X .500 : MATERIAL: AISI 304/316 SS BAR OR AISI 304/316 SS PLATE AS PER ASTM A276 OR ASTM A240 NOTE: AISI 303 NOT ACCEPTABLE receive ft	Firmed	2/20/18	300 pcs	0 pcs	300 pcs	\$4.25/pcs	\$1,275.00
2	M4140NR0.625		4140 Steel Round Bar 0.625" receive ft	Firmed	2/20/18	8 ft	0 ft	8 ft	\$5.70/ft	\$45.60
3	M4140NR0.875		4140 Steel Round Bar 0.875" receive ft	Firmed	2/20/18	20 ft	0 ft	20 ft	\$4.70/ft	\$94.00
4	M4140CDB1.000x1.000		4140 Steel Bar 1.000 X 1.000 receive ft	Firmed	2/20/18	6 ft	0 ft	6 ft	\$27.00/ft	\$162.00
5	MT-4140-B- 1.250X6.000		AISI 4140 Round Bar : Material: AISI 4140 STEEL BAR AS PER ASTM A29, AMS 6349, AMS 6382, AMS 6529, MIL-S-5626 MIN. ROCKWELL C = 28 RC MAX. ROCKWELL C = 32 RC NOTE: cut material in 12" length x 10 pcs	Firmed	2/20/18	10 ft	0 ft	10 ft	\$68.60/ft	\$686.00

Order Notes

Grand Total: \$2,262.60

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: MT-4140-B-1.250x6.000
 DATE: FEB 21 2018

PO / BATCH NO.: 088986/5044299

MATERIAL CERT REC'D: Yes
 QUANTITY RECEIVED: 10'
 QUANTITY INSPECTED: 10'
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 1.250
 THICKNESS RECEIVED: 1.250
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y (N)	
CORRECT FINISH	(Y) N	
CORROSION	Y (N)	
CORRECT GRAIN DIRECTION	(Y) N	
CORRECT MATERIAL PER M-DRAWING	(Y) N	<u>Astm-A-829</u>
CORRECT THICKNESS	(Y) N	
PHOTO REQUIRED	Y (N)	
CORRECT REF # TO LINK CERT	(Y) N	<u>Heat # Pm94492</u>
CORRECT MATERIAL IDENTIFICATION	(Y) N	
CORRECT M# ON THE MATERIAL	(Y) N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y (N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y (N)	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL	HRC	HRB	DUR A	DUR D	WEBSTER
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)	
INSPECTED BY: <u>DAS 11</u> DATE: <u>9-8 FEB 21 2018</u>	SIGNED OFF BY: _____ DATE: _____		

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

REV.	DESCRIPTION	ECN #	DATE	BY	APPROVED
A	NEW ISSUE	18-544	18.2.13	VM	ML

SPECIFICATION CONTROL DRAWING


PURCHASE MATERIAL : AISI 4140 / 4142 STEEL SHEET OR PLATE
 MINIMUM ROCKWELL C = 28 Rc
 MAXIMUM ROCKWELL C = 32 Rc

SPECIFICATION: ASTM A829, AMS 6395

PART NUMBER:

MT-4140-S-[T.TTT] x [W.WWW]
 WHERE "T.TTT" = THICKNESS IN INCHES
 WHERE "W.WWW" = WIDTH IN INCHES (OPTIONAL FOR SPECIFYING CUT PLATE)

EX. 0.063" THICK SHEET = MT-4140-S-0.063
 EX. 3.5" WIDE BY 0.500" THICK PLATE = MT-4140-S-0.500X3.500

 <small>Manufacturing Ontario, Canada</small>	
TITLE AISI 4140 / 4142 STEEL SHEET OR PLATE	
PART NO. MT-4140-S	REV A
<small> TOOL NO. DIMENSIONS ARE IN INCHES DIMENSIONS APPLY AFTER FINISHING UNLESS OTHERWISE SPECIFIED TOLERANCES DESIGNED BY: VM 2/13/2018 DRAWN BY: VM 02/13/2018 CHECKED BY: VM 02/13/2018 AND REVIEW BY: DD 02/13/2018 APPROVED BY: ML 02/14/2018 SCALE: NTS SHEET 1 OF 1 THIS DRAWING IS THE PROPERTY OF PART AEROSPACE LTD. IT IS TO BE USED FOR THE PURPOSES OF THE ORDER ONLY. IT IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, WITHOUT THE WRITTEN PERMISSION OF PART AEROSPACE LTD. </small>	

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M4140CDB1.000x1.000

PO / BATCH NO: 038986/5044298

DATE: FEB 21 2018

MATERIAL CERT REC'D: yes

THICKNESS ORDERED: 1.000

QUANTITY RECEIVED: 6

THICKNESS RECEIVED: 1.000

QUANTITY INSPECTED: 6

SHEET SIZE ORDERED: N/A

QUANTITY REJECTED: 0

SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y (N)	
CORRECT FINISH	(Y) N	
CORROSION	Y (N)	
CORRECT GRAIN DIRECTION	(Y) N	
CORRECT MATERIAL PER M-DRAWING	(Y) N	<u>Astm A29 as per A108</u>
CORRECT THICKNESS	(Y) N	
PHOTO REQUIRED	Y (N)	
CORRECT REF # TO LINK CERT	(Y) N	<u>Heat # 54874555</u>
CORRECT MATERIAL IDENTIFICATION	(Y) N	
CORRECT M# ON THE MATERIAL	(Y) N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y (N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y (N)	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK.

RECORD RESULTS BELOW

	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)	
INSPECTED BY: <u>DAS</u> <u>11</u>	SIGNED OFF BY: _____		
DATE: <u>9-89</u> <u>FEB 21 2018</u>	DATE: _____		

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in


SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL : AISI 4140 / 4142 STEEL BAR
MINIMUM ROCKWELL C = 28 Rc
MAXIMUM ROCKWELL C = 32 Rc

ASTM A29, AMS 6349, AMS 6382, AMS 6529, MIL-S-5626, MIL-S-24093

PART NUMBER:

MT-4140-B-[T.TTT] x [W.WWWW]
WHERE "T.TTT" = THICKNESS IN INCHES
WHERE "W.WWWW" = WIDTH IN INCHES
EX. 4.0" x 6.0" BAR = MT-4140-B-4.000x6.000

 DART AEROSPACE Hawthorn, Victoria, Canada	
TITLE	
AISI 4140 / 4142 STEEL BAR	
PART NO.	MT-4140-B
TOL. NO.	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES DIMENSIONS ARE IN MILLIMETERS DIMENSIONS APPLY AFTER FINISHING
DESIGNED BY: WM 12/19/2017 DRAWN BY: WM 02/14/2018 CHECKED BY: WM 02/14/2018 NO. REVISED BY: DD 02/14/2018 APPROVED BY: WM 02/14/2018	TOLERANCES: FRACTIONS ± .005 DECIMALS ± .001 SURFACE ROUGHNESS
COMPANIES 2018 BY DART AEROSPACE LTD 10000 HWY 7 UNIT 10 HAWTHORN, ONTARIO CANADA L7R 4W1 TEL: 905-709-1111 FAX: 905-709-1112 WWW.DARTAEROSPACE.COM	SCALE: NTS DATE: 02/14/2018

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M41401 RO.875
 DATE: FEB 21 2018

PO / BATCH NO.: 038986/5044297

MATERIAL CERT REC'D: Yes
 QUANTITY RECEIVED: 20'
 QUANTITY INSPECTED: 20'
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 0.875
 THICKNESS RECEIVED: 0.875
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y (N)	
CORRECT FINISH	(Y) N	
CORROSION	Y (N)	
CORRECT GRAIN DIRECTION	(Y) N	
CORRECT MATERIAL PER M-DRAWING	(Y) N	<u>Astm A29</u>
CORRECT THICKNESS	(Y) N	
PHOTO REQUIRED	Y (N)	
CORRECT REF # TO LINK CERT	(Y) N	<u>Heat # 75065013</u>
CORRECT MATERIAL IDENTIFICATION	(Y) N	
CORRECT M# ON THE MATERIAL	(Y) N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y (N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y (N)	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>DAS 11</u> DATE: <u>9-89 FEB 21 2018</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

REV.	DESCRIPTION	ECN #	DATE	BY	APPROVED
A	NEW ISSUE	17-790	17.12.13	VM	ML
B	MIN & MAX Rc CHANGED	18-523	18.01.24	VM	ML
C	ADD AISI 4142	18-544	18.02.14	ML	ML


SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL : AISI 4140 / 4142 STEEL BAR
 MINIMUM ROCKWELL C = 28 Rc
 MAXIMUM ROCKWELL C = 32 Rc

SPECIFICATION: ASTM A29, AMS 6349, AMS 6382, AMS 6529, MIL-S-5626, MIL-S-24093

PART NUMBER:

MT-4140-B-FT-TTTT x W.W.WWW
 WHERE "T.TTTT" = THICKNESS IN INCHES
 WHERE "W.WWW" = WIDTH IN INCHES
 EX. 4.0" x 6.0" BAR = MT-4140-B-4.000x6.000

 DART Aerospace		170000000, OAKVILLE, CANADA
TITLE AISI 4140 / 4142 STEEL BAR		
PART NO. MT-4140-B	REV C	DATE 17.12.13
DESIGNED BY: VM 12/13/2017 TOOLING: JXX 1.005 FRACTIONS: 1/16 CHECKED BY: VM 02/14/2018 SCALE: 1:1 FINISH: 2.5" APPROVED BY: DD 02/14/2018 SCALE: NTS SHEET: 1 OF 1		
<small>THIS DOCUMENT IS THE PROPERTY OF DART AEROSPACE LTD. IT IS TO BE USED FOR THE PURPOSES SPECIFIED AND NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM. WITHOUT PERMISSION IN WRITING FROM DART AEROSPACE LTD.</small>		

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M4140NRO.625
 DATE: FEB 21 2018

PO / BATCH NO.: 038986/5044296

MATERIAL CERT REC'D: Yes
 QUANTITY RECEIVED: 8
 QUANTITY INSPECTED: 8
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 0.625
 THICKNESS RECEIVED: 0.625
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="radio"/> N <input type="radio"/>	
CORRECT FINISH	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORROSION	Y <input type="radio"/> N <input checked="" type="radio"/>	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="radio"/> Y <input type="radio"/> N	<u>Astm A29 as per A108</u>
CORRECT THICKNESS	<input checked="" type="radio"/> Y <input type="radio"/> N	
PHOTO REQUIRED	Y <input type="radio"/> N <input checked="" type="radio"/>	
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> Y <input type="radio"/> N	<u>Heat # HT 75066727</u>
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/> Y <input type="radio"/> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input type="radio"/> N <input checked="" type="radio"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input type="radio"/> N <input checked="" type="radio"/>	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>DAS 11</u> DATE: <u>9-89 FEB 21 2018</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

REV.	DESCRIPTION	ECN #	DATE	BY	APPROVED
A	NEW ISSUE	17-790	17.12.13	VM	ML
B	MIN & MAX Rc CHANGED	18-523	18.01.24	VM	ML
C	ADD AISI 4142	18-544	18.02.14	ML	ML

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL : AISI 4140 / 4142 STEEL BAR
MINIMUM ROCKWELL C = 28 Rc
MAXIMUM ROCKWELL C = 32 Rc

ASTM A29, AMS 6349, AMS 6382, AMS 6529, MIL-S-5626, MIL-S-24093

SPECIFICATION:

PART NUMBER:
MT-4140-B-[T.TTT] x [W.WWWW]
WHERE "T.TTT" = THICKNESS IN INCHES
WHERE "W.WWWW" = WIDTH IN INCHES
EX. 4.0" x 6.0" BAR = MT-4140-B-4.000x6.000

DART
AEROSPACE

Hawkebury, Ontario, Canada

TITLE		AISI 4140 / 4142 STEEL BAR	
PART NO.	MT-4140-B	REV	C
TOOL NO.			
UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES DIMENSIONS APPLY AFTER FINISHING			
DESIGNED BY:	VM 12/13/2017	TOLERANCES:	
DRAWN BY:	ML 02/14/2018	XX ± .01	POSITIONS ± .05
CHECKED BY:	VM 02/14/2018	XX ± .01	ANGLES ± .5°
APPROVED BY:	DD 02/14/2018	XX ± .01	ROUGHNESS
APPROVED BY:	ML 02/14/2018	SCALE: NTS	SHEET 1 OF 1

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ml

CERTIFICAT D'ANALYSE

DART AEROSPACE LTD
1270, ABERDEEN STREET
HAWKESBURY, ONTARIO
K6A 1K7

20 févr. 18

Product Description

MSP12500

1-1/4 X 34 1/4" X 145 3/4"

ASTM A-829

DFARS Compliant

PLATE#: 424249B

Country of Origin SLOVENIA

C - 0.4200 Mn - 0.8030

Cr - 0.9900 Mo - 0.1600

Shipped Pcs

1.00

PLATE 4140/42 PREH.

Back Order

0.00

PO LINE

PM HEAT#: 94492

BHN 310.00

P - 0.0070 S - 0.0005
Cu - 0.2470 V - 0.0380

Si - 0.2000 Ni - 0.2100

ITEM 5: 10 X 6" X 12"

COMMANDE: 132578

REF: 38986

Métaux Solutions inc. certifie que les analyses sur ce document sont exactes et que le matériel rencontre les spécifications énumérées.

Préparé par

CERTIFICATE OF TEST CERTIFICAT D'ESSAIS

Page 01 of 02

CUSTOMER ORDER NUMBER
NUMÉRO DE COMMANDE DU CLIENT

Certification Date
18-AUG-2017

43024-J
PART NUMBER/NUMÉRO DE PIÈCE
507340

Invoice Number
T369355

SOLD TO: METAUX SOLUTIONS INC. SHIP TO:
VENDU À: 2625 BOUL JACQUES CARTIER EST EXPÉDIÉ À:
LONGUEUIL QC J4N 1L7

METAUX SOLUTIONS (RIVE-SUD)
2625 BOUL JACQUES CARTIER EST
LONGUEUIL QC J4N 1

Description: 4140/4142 CF ANN BAR

1 SQ X 12' R/L
HEAT: SA894555

ITEM: 507340

ASTM A108
Line Total: 84 LB

Specifications:
ASTM A108 13

ASTM A331*

EN 10204 3.1

CHEMICAL ANALYSIS

C	MN	P	S	SI	CU	CR	NI
0.43	0.79	0.0090	0.019	0.28	0.02	1.0600	0.03
MO	AL						
0.18	0.015						

RCPT: R167824

COUNTRY OF ORIGIN : GERMANY

MECHANICAL PROPERTIES

DESCRIPTION	YLD STR	ULT TEN	%ELONG	%RED IN AREA	HARDNESS BHN 168

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The willful recording of false, fictitious, or fraudulent statements in connection with test results may be punishable as a felony under federal statutes. /Les informations fausses, fictives ou frauduleuses en rapport avec le résultat des essais sont punissables en vertu des lois fédérales.

Material did not come in contact with mercury while in our possession. /Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

JOANNE DESPRES

Joanne Despres

MANAGER QUALITY ASSURANCE
GÉRANT DE L'ASSURANCE QUALITÉ

CERTIFICATE OF TEST CERTIFICAT D'ESSAIS

Page 02 of 02

CUSTOMER ORDER NUMBER
NUMÉRO DE COMMANDE DU CLIENT

Certification Date
18-AUG-2017

43024-J
PART NUMBER/NUMÉRO DE PIÈCE
507340

Invoice Number
T369355

SOLD TO:	METAUX SOLUTIONS INC.	SHIP TO:	METAUX SOLUTIONS (RIVE-SUD)
VENDU À:	2625 BOUL JACQUES CARTIER EST LONGUEUIL QC J4N 1L7	EXPÉDIÉ À:	2625 BOUL JACQUES CARTIER EST LONGUEUIL QC J4N 1

Description: 4140/4142 CF ANN BAR

1 SQ X 12' R/L

HEAT: SA894555

ITEM: 507340

END-QUENCH HARDENABILITY (JOMINY - RC) IN

1	2	3	4	5	6	7	8	9	10	12	14	16	18	22
58	57	56	56	55	55	53	52	51	50	47	45	43	42	40

ASTM A108

Line Total: 84 LB

GRAIN SIZE :5 -

MATERIAL IS FREE FROM MERCURY CONTAMINATION
NO WELD REPAIR PERFORMED ON MATERIAL

COMMENTS

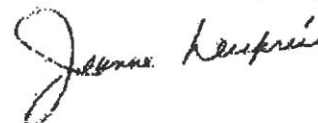
*ASTM A331 WITHDRAWN, REPLACED BY ASTM A108

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JOANNE DESPRES



MANAGER QUALITY ASSURANCE
GÉRANT DE L'ASSURANCE QUALITÉ

CERTIFICATE OF TEST CERTIFICAT D'ESSAIS

Page 01 of 02

CUSTOMER ORDER NUMBER
NUMÉRO DE COMMANDE DU CLIENT

Certification Date
9-FEB-2018

44141-J
PART NUMBER/NUMÉRO DE PIÈCE
506424

Invoice Number
S703350

SOLD TO: METAUX SOLUTIONS INC. SHIP TO: METAUX SOLUTIONS (RIVE-SUD)
VENDU À: 2625 BOUL JACQUES CARTIER EST EXPÉDIÉ À: 2625 BOUL JACQUES CARTIER EST
LONGUEUIL QC J4N 1L7 LONGUEUIL QC J4N 1

Description: 4140/4142 HR HT BAR STRESS FREE 269/321 BHN
7/8 RD X 20' R/L Line Total: 43.3752 LB
HEAT: 75065013 ITEM: 506424

Specifications:
ASTM A193 GR B7 16 ASTM A434 GR BC 15 ASME SA193 GR B7
ASTM A29 15 ASTM A304 11 ASTM A255 10
JDM AO QL-2 ASTM A370 14 ASTM A322 13
ASTM A962 14

CHEMICAL ANALYSIS

C	MN	P	S	SI	NI	CR	MO
0.42	0.89	0.0090	0.029	0.25	0.19	0.91	0.17
CU	SN	AL	V	CA	NB	H	
0.19	0.0090	0.028	0.003	0.0012	0.001	2.50	

RCPT: R218782

COUNTRY OF ORIGIN : USA

MECHANICAL PROPERTIES

DESCRIPTION	YLD STR KSI	ULT TEN KSI	%ELONG IN 02 IN	%RED IN AREA	HARDNESS BHN
	136.0	147.0	22.0	60.0	295

GRAIN SIZE : 5 - 8

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JOANNE DESPRES



MANAGER QUALITY ASSURANCE
GÉRANT DE L'ASSURANCE QUALITÉ

CERTIFICATE OF TEST CERTIFICAT D'ESSAIS

Page 02 of 02

Certification Date
9-FEB-2018

CUSTOMER ORDER NUMBER
NUMÉRO DE COMMANDE DU CLIENT

Invoice Number
S703350

44141-J
PART NUMBER/NUMÉRO DE PIÈCE
506424

SOLD TO: METAUX SOLUTIONS INC.	SHIP TO: METAUX SOLUTIONS (RIVE-SUD)
VENDU À: 2625 BOUL JACQUES CARTIER EST	EXPÉDIÉ À: 2625 BOUL JACQUES CARTIER EST
LONGUEUIL QC J4N 1L7	LONGUEUIL QC J4N 1

Description: 4140/4142 HR HT BAR STRESS FREE 269/321 BHN
7/8 RD X 20' R/L Line Total: 43.3752 LB
HEAT: 75065013 ITEM: 506424
CLEANLINESS

A		B		C		D	
THIN	THICK	THIN	THICK	THIN	THICK	THIN	THICK
MAX	MAX	MAX	MAX	MAX	MAX	MAX	MAX

8

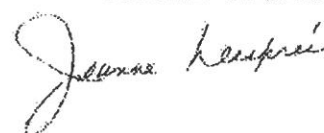
STRAND CAST REDUCTION RATIO 113.2 TO 1
MATERIAL IS FREE FROM MERCURY CONTAMINATION
NO WELD REPAIR PERFORMED ON MATERIAL
THERMAL TREATMENT: OK
AUSTENITIZE 1640 DEG F FOR 50
QUENCH 88 DEG F DOR 20 WATER
TEMPER 1410 DEG F FOR .50
MACRO: OK
MICRO1: OK

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Material did not come in contact with mercury while in our possession./Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

JOANNE DESPRES



MANAGER QUALITY ASSURANCE
GÉRANT DE L'ASSURANCE QUALITÉ

CERTIFICATE OF TEST CERTIFICAT D'ESSAIS

Page 01 of 02

Certification Date
16-FEB-2018

CUSTOMER ORDER NUMBER
NUMÉRO DE COMMANDE DU CLIENT

Invoice Number
T375959

44141-J
PART NUMBER/NUMÉRO DE PIÈCE
506450

SOLD TO: METAUX SOLUTIONS INC.
VENDU À: 2625 BOUL JACQUES CARTIER EST
LONGUEUIL QC J4N 1L7

SHIP TO: METAUX SOLUTIONS (RIVE-SUD)
EXPÉDIÉ À: 2625 BOUL JACQUES CARTIER EST
LONGUEUIL QC J4N 1

Description: 4140/4142 HOT ROLL HT BAR 269/321 BHN A
5/8" RD X 20' R/L Line Total: 20.88 LB
HEAT: 75066727 ITEM: 506450

Specifications:
ASTM A193 GR B7 01 ASME SA193 GR B7 ASTM A434 CL BC 90A

CHEMICAL ANALYSIS

C	MN	P	S	SI	NI	CR	MO
0.42	0.85	0.012	0.0180	0.23	0.13	1.01	0.16
AL	CU	V	CB				
0.0180	0.24	0.003	0.002				

RCPT: R259594

COUNTRY OF ORIGIN : USA

MECHANICAL PROPERTIES

DESCRIPTION	YLD STR	ULT TEN	%ELONG	%RED	HARDNESS
	PSI	PSI	IN 02 IN	IN AREA	BHN
	127000.0	148000.0	20.4	72.0	273

GRAIN SIZE : 5 - 8

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Material did not come in contact with mercury while in our possession. /Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

JOANNE DESPRES



MANAGER QUALITY ASSURANCE
GÉRANT DE L'ASSURANCE QUALITÉ

CERTIFICATE OF TEST CERTIFICAT D'ESSAIS

Page 02 of 02

Certification Date
16-FEB-2018

CUSTOMER ORDER NUMBER
NUMÉRO DE COMMANDE DU CLIENT

Invoice Number
T375959

44141-J
PART NUMBER/NUMÉRO DE PIÈCE
506450

SOLD TO:	METAUX SOLUTIONS INC.	SHIP TO:	METAUX SOLUTIONS (RIVE-SUD)
VENDU À:		EXPÉDIÉ À:	
	2625 BOUL JACQUES CARTIER EST		2625 BOUL JACQUES CARTIER EST
	LONGUEUIL QC J4N 1L7		LONGUEUIL QC J4N 1

Description:	4140/4142 HOT ROLL HT BAR	269/321 BHN A
5/8 RD X 20' R/L		Line Total: 20.88 LB
HEAT: 75066727	ITEM: 506450	

MATERIAL IS FREE FROM MERCURY CONTAMINATION
NO WELD REPAIR PERFORMED ON MATERIAL
THERMAL TREATMENT: OK
AUSTENIZE 1630F .60
WATER QUENCH
TEMPER 1395F .60
MACRO: OK
MICRO: OK

COMMENTS

ACCEPTED FOR 1E0509 PN 169-6969 MP PER BSH 7-21-17

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Material did not come in contact with mercury while in our possession./Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

JOANNE DESPRES



MANAGER QUALITY ASSURANCE
GÉRANT DE L'ASSURANCE QUALITÉ